?ds			
Set	Items	Description	
	100		

?t s5/3/9

#

S5 14 TARGET - S4

DIFICE

ORDER fax of complete patent from Dialog SourceOne. See HELP OR AVIRULENT MICROBES AND USES THEREFOR.

AVIRULENTE MIKROBEN UND DEREN VERWENDUNGEN.

MICROBES AVIRULENTS ET LEURS UTILISATIONS.

PATENT ASSIGNEE:

Mega Holding, (1692530), 1025 18th Street South Suite 201, Birmingham, Alabama 35205, (US), (applicant designated states: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE)

WASHINGTON UNIVERSITY, (645448), 1 Brookings Drive, St. Louis, MO 63130, (US), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

INVENTOR:

CURTISS, Roy, III, 6065 Lindell Boulevard, St. Louis, MO 63112, (US) LEGAL REPRESENTATIVE:

Hansen, Bernd, Dr. rer. nat. et al (4922), Hoffmann, Eitle & Partner

Patentanwalte Postfach 81 04 20, D-81904 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 315682 A1 890517 (Basic)

EP 315682 A1 900103

EP 315682 B1 931222

WO 8809669 881215

APPLICATION (CC, No, Date): EP 88905542 880601; WO 88US1899 880601 PRIORITY (CC, No, Date): US 58360 870604 DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE INTERNATIONAL PATENT CLASS: A61K-039/02; C12N-015/00; C12N-001/20; LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

Update Word Count Available Text Language CLAIMS B (English) EPBBF1 541 567 CLAIMS B (German) EPBBF1 EPBBF1 588 CLAIMS B (French) (English) 14534 SPEC B EPBBF1 Total word count - document A 0 16230 Total word count - document B Total word count - documents A + B 16230 ?t s5/9/11

5/9/11 (Item 11 from file: 34)
DIALOG(R) File 34: SciSearch(R) Cited Ref Sci

(c) 1999 Inst for Sci Info. All rts. reserv.

02625716 Genuine Article#: LR044 Number of References: 172

Title: RECENT ADVANCES IN BOVINE VACCINE TECHNOLOGY

Author(s): YANCEY RJ

Corporate Source: UPJOHN CO, ANIM HLTH THERAPEUT RES/KALAMAZOO//MI/49001

Journal: JOURNAL OF DAIRY SCIENCE, 1993, V76, N8 (AUG), P2418-2436

ISSN: 0022-0302

Language: ENGLISH Document Type: REVIEW

Geographic Location: USA

Subfile: SciSearch; CC AGRI--Current Contents, Agriculture, Biology &

Environmental Sciences

Journal Subject Category: AGRICULTURE, DAIRY & ANIMAL SCIENCE; FOOD SCIENCE & TECHNOLOGY

Abstract: A description of new commercial and experimental vaccines for viral and bacterial diseases of cattle can be broadly divided into those used for both beef and dairy cows and those used predominantly in dairy cattle. For both types of cattle, newer and experimental vaccines are directed against several of the important viral (e.g., bovine herpesvirus 1, bovine viral diarrhea virus, bovine respiratory syncytial virus, parainfluenza type 3, and foot-and-mouth disease virus) and bacterial pathogens (e.g., Pasteurella spp., Haemophilus somnus). The viral vaccines include gene-deleted, modified live, subunit, and peptide antigens. Newer bacterial vaccines, particularly those for Pasteurella spp., are composed of either modified-live vaccines or bacterins supplemented with toxoid or surface antigens. Haemophilus somnus vaccine research has concentrated mainly on defining unique surface antigens. Novel dairy cow vaccines would include the lipopolysaccharide-core (J5) antigen approach, which has been used for successful immunization against coliform mastitis. Core antigen

vaccines also have reduced calf mortality from Gram-negative athogens Staphylococcal mastitis vaccines that contain capsular antigens, toxoids, or the staphylococcal fibronectin receptor are of active research interest. Vaccines against mastitis induced by Streptococcus agalactiae and Streptococcus uberis also are areas of intensive research. Delivery of multiple subunit antigens with optimal immune response induction has led to the investigation of attenuated heterologous viral and bacterial expression vectors such as bovine herpesvirus 1, vaccinia, and Salmonella spp. This discussion also demonstrates that molecular biology is being used to advance bovine vaccine technology.

Descriptors--Author Keywords: VACCINES; DISEASE; ANTIGENS; MASTITIS
Identifiers--KeyWords Plus: RESPIRATORY SYNCYTIAL VIRUS; AROMATIC-DEPENDENT
SALMONELLA; CHIMERIC FG GLYCOPROTEIN; PASTEURELLA -HAEMOLYTICA
VACCINE; CLINICAL COLIFORM MASTITIS; HEMOPHILUS-SOMNUS BACTERIN; VIRAL
DIARRHEA VIRUS; AUREUS GROWN-INVITRO; MOUTH-DISEASE VIRUS; SERUM-SOFT
AGAR

Research Fronts: 91-6536 003 (LIVE ATTENUATED SALMONELLA VACCINES; ORAL IMMUNIZATION; AROA STRAIN; VACCINATION OF CHICKENS)

- 91-1497 002 (BOVINE HERPESVIRUS TYPE-4; ISCOM OF BHV-1 ENVELOPE GLYCOPROTEINS PROTECTED CALVES; SIMIAN AGENT-8)
- 91-1620 001 (BOVINE VIRAL DIARRHEA VIRUS; CATTLE PERSISTENTLY INFECTED; POLYMERASE CHAIN-REACTION ASSAY)
- 91-2132 001 (FOOT-AND-MOUTH-DISEASE VIRUS; CAPSID PROTEIN VP1; CONFORMATIONALLY RESTRICTED B-CELL EPITOPES ELICITS NEUTRALIZING ANTISERA)
- 91-2839 001 (CLINICAL MASTITIS; DAIRY HERDS; BOVINE NEUTROPHILS FOLLOWING GROWTH; PERIPARTURIENT COWS; INTRAMAMMARY CHALLENGE; LOW SOMATIC-CELL COUNTS; TEAT DIP)
- 91-6647 001 (HISTOPHILUS OVIS HAEMOPHILUS SOMNUS INFECTION; CHRONIC LESIONS OF THROMBOEMBOLIC MENINGOENCEPHALOMYELITIS)
- 91-8074 001 (FLAGELLIN SYNTHESIS IN SALMONELLA-TYPHIMURIUM; TRYPTOPHAN-SPECIFIC PERMEASE OF ESCHERICHIA-COLI K-12; RFB REGION; TRP PROMOTER; MOLECULAR MECHANISM)

Cited References:

US 4328210, 1982, KUCERA CJ ADLAM C, 1977, V17, P250, INFECT IMMUN ANDERSON JC, 1978, V134, P412, BRIT VET J ANDERSON JC, 1976, V5, P783, ZENTRALBL BAKTER I S BABIUK LA, 1987, V159, P57, VIROLOGY BAKER JC, 1989, V50, P814, AM J VET RES BAKER JC, 1991, V13, P1323, COMP CONT EDUC PRACT BAKER JC, 1987, V190, P1449, J AM VET MED ASSOC BARTELING SJ, 1991, V9, P75, VACCINE BAXBY D, 1992, V10, P8, VACCINE BEESLEY KM, 1990, V8, P644, BIO-TECHNOL BELSHAM GJ, 1989, V124, P655, VET REC BENNETT BW, 1982, V3, P26, BOVINE PRACT BITTLE JR, 1982, V2, P184, LANCET BLANCHARDCHANNE.MT, 1987, V48, P637, AM J VET RES BRAMLEY AJ, 1989, V57, P2489, INFECT IMMUN BRIDEAU RJ, 1989, V70, P2637, J GEN VIROL BRIDEAU RJ, 1993, V74, P471, J GEN VIROL CADOZ M, 1992, V339, P1429, LANCET CARDENAS L, 1992, V5, P328, CLIN MICROBIOL REV CHANDLER RL, 1970, V3, P273, J MED MICROBIOL CHATFIELD SN, 1989, V7, P495, VACCINE CHENGAPPA MM, 1979, V40, P449, AM J VET RES COELINGH KLV, 1987, V160, P465, VIROLOGY COLDITZ IG, 1985, V62, P145, AUST VET J COLINGH KLV, 1987, V87, P296, VACCINES COLD SPRING CONFER AW, 1984, V45, P2622, AM J VET RES CONFER AW, 1987, V48, P163, AM J VET RES CONLON JA, 1991, V59, P587, INFECT IMMUN CORBEIL LB, 1991, P39, C RES WORKERS ANIM D CORBEIL LB, 1990, V54, S57, CAN J VET RES CORBEIL LB, 1987, V55, P1381, INFECT IMMUN

CULLOR JS, 1992, V200, P1894, J AM VET MED ASSOC CULLOR JS, 1991, V86, P836, VET MED-US CURTISS R, 1990, P161, NEW GENERATION VACCI DAIGNEAULT J, 1991, V52, P1492, AM J VET RES DARDENNE AJ, 1984, V142, P235, J PATHOL DEGRAVES FJ, 1991, V199, P451, J AM VET MED ASSOC DEREE JM, 1992, V1, P74, 17 P WORLD BIUATR C DIMARCHI R, 1986, V232, P639, SCIENCE EBERHART RJ, 1979, V62, P1, J DAIRY SCI FATTOM A, 1990, V58, P2367, INFECT IMMUN FATTOM A, 1992, V60, P584, INFECT IMMUN FATTOM A, 1992, P56, 7TH INT S STAPH STAP FITZPATRICK DR, 1989, V173, P46, VIROLOGY FLEXNER C, 1990, V21, P51, ADV PHARMACOL FLOCK JI, 1992, P58, 7TH INT S STAPH STAP FOSTER TJ, 1990, P35, PATHOGENESIS WOUND B FOSTER TJ, 1991, V9, P221, VACCINE FOURNIER JM, 1990, P533, PATHOGENESIS WOUND B FRANCIS MJ, 1987, V61, P1, IMMUNOLOGY FRANCIS MJ, 1990, V87, P2545, P NATL ACAD SCI USA FRERICHS GN, 1982, V111, P116, VET REC GEORGE L, 1988, V49, P1800, AM J VET RES GIBBS EPJ, 1977, V47, P317, VET B GOGOLEWSKI RP, 1987, V55, P1403, INFECT IMMUN GOGOLEWSKI RP, 1988, V56, P2307, INFECT IMMUN GONZALEZ RN, 1989, V53, P301, CAN J VET RES GONZALEZ RN, 1990, P205, P INT S BOVINE MASTI GUIDRY AJ, 1991, V74, P3360, J DAIRY SCI HEATH AW, 1992, V10, P427, VACCINE HILL AW, 1988, V44, P386, RES VET SCI HILL AW, 1991, V15, P7, VET RES COMMUN HIMES SR, 1992, V73, P1563, J GEN VIROL HJERPE CA, 1990, V6, P171, VET CLIN N AM-FOOD A HOGAN JS, 1992, V75, P78, J DAIRY SCI HOGAN JS, 1992, V75, P415, J DAIRY SCI HOISETH SK, 1981, V291, P238, NATURE HRUBY DE, 1990, V3, P153, CLIN MICROBIOL REV HUGHES HPA, 1992, V10, P226, VACCINE HUMPHREY JD, 1983, V53, P987, VET B INZANA TJ, 1992, V60, P2943, INFECT IMMUN ISRAEL BA, 1988, V6, P349, VACCINE JERICHO KWF, 1982, V46, P293, CAN J COMP MED JIM K, 1988, V83, P1084, VET MED JOHNSON EH, 1985, V10, P451, VET MICROBIOL JONES PW, 1991, V9, P29, VACCINE KADEL WL, 1985, V46, P1944, AM J VET RES KIMMAN TG, 1990, V112, P1, ARCH VIROL KING AMQ, 1981, V293, P479, NATURE KIT M, 1991, V9, P564, VACCINE KIT S, 1985, V86, P63, ARCH VIROL KIT S, 1989, P219, IMMUNOBIOLOGY PROTEI KIT S, 1986, V4, P55, VACCINE KUCERA CJ, 1983, V44, P1848, AM J VET RES KWIECIEN JM, 1991, V32, P595, CAN VET J LEHMAN DJ, 1992, V74, P459, J GEN VIROL LIANG XP, 1992, V189, P629, VIROLOGY LITTELVANDENHUR.SV, 1990, V8, P358, VACCINE LOBMANN M, 1986, V47, P557, AM J VET RES LOEFFLER DA, 1988, V49, P1452, AM J VET RES LOEFFLER DA, 1987, V14, P145, VET IMMUNOL IMMUNOP LUPTON HW, 1980, V41, P383, AM J VET RES MACKETT M, 1985, V227, P433, SCIENCE MACKIE DP, 1983, V112, P472, VET REC MCFEELY RA, 1968, V153, P657, J AM VET MED ASSOC MCKERCHER PD, 1985, V46, P587, AM J VET RES MILLER JM, 1989, V50, P551, AM J VET RES MILLER JM, 1991, V52, P1038, AM J VET RES

MILLER JM, 1991, V86, P95, VET MED-US MILLS L, 1991, V12, P35, AGRI-PRACTICE MISRA V, 1988, V166, P542, VIROLOGY MOREIN B, 1984, V308, P487, NATURE MORGAN DO, 1990, V51, P40, AM J VET RES MOSIER DA, 1989, V57, P711, INFECT IMMUN MURPHY BR, 1989, V7, P533, VACCINE NAIDU AS, 1991, V74, P3353, J DAIRY SCI NASHAR TO, 1991, V50, P145, RES VET SCI NELSON L, 1991, V62, P111, VLEM VET J S1 NEWSHAM R, 1992, V1, P224, 17 P WORLD BUIATR C NICKERSON SC, 1991, V74, P167, J DAIRY SCI S1 NICKERSON SC, 1992, V2, P239, 17 P WORLD BIUATR C NORCROSS NL, 1991, V62, P129, FLEM VET J S1 NORDHAUG ML, 1992, P57, 7TH INT S STAPH STAP OPDEBEECK JP, 1983, V44, P986, AM J VET RES OPDEBEECK JP, 1985, V46, P1561, AM J VET RES OPDEBEECK JP, 1987, V13, P225, VET MICROBIOL OPDEBEECK JP, 1988, V16, P87, VET MICROBIOL PANKEY JW, 1983, P149, 1983 HILL FARM RES S PASTORET PP, 1980, V29, P483, INFECT IMMUN PATEL AH, 1987, V55, P3103, INFECT IMMUN PATZER EJ, 1985, P153, IMMUNOCHEMISTRY VIRU POUTREL B, 1988, V26, P38, J CLIN MICROBIOL PROCTOR RA, 1982, V59, P681, BLOOD PURDY CW, 1986, V188, P589, J AM VET MED ASSOC RAINARD P, 1991, V62, P141, FLEM VET J S1 RATHER PN, 1986, V23, P858, J CLIN MICROBIOL RIBBLE CS, 1988, V52, P191, CAN J VET RES ROBERTSSON JA, 1983, V41, P742, INFECT IMMUN ROTH JA, 1988, V83, P1067, VET MED ROUSE B, 1978, V42, P415, CAN J COMP MED SANDERSON KE, 1988, V52, P485, MICROBIOL REV SCHELD WM, 1985, V180, P474, P SOC EXP BIOL MED SCHULTZ KT, 1991, V23, P20, BOVINE P SEARS PM, 1990, P69, P INT S BOVINE MASTI SHEWEN PE, 1988, V83, P1078, VET MED SMITH BP, 1984, V45, P59, AM J VET RES SMITH BP, 1984, V45, P2231, AM J VET RES SMITH BP, 1984, V45, P1858, AM J VET RES SPRIGGS MK, 1987, V61, P3416, J VIROL STEPHENS LR, 1982, V43, P1339, AM J VET RES STEPHENS LR, 1990, V54, S41, CAN J VET RES STRABEL TJ, 1991, V59, P2941, INFECT IMMUN STROHMAIER K, 1982, V59, P295, J GEN VIROL SUTRA L, 1990, V51, P1857, AM J VET RES SUTRA L, 1990, V28, P2253, J CLIN MICROBIOL TIKOO SK, 1990, V64, P5132, J VIROL TRUDEL M, 1988, V6, P525, VACCINE TYLER J, 1991, V74, P1235, J DAIRY SCI TYLER JW, 1988, V49, P1950, AM J VET RES TYLER JW, 1992, V75, P1821, J DAIRY SCI TYLER JW, 1990, V4, P17, J VET INTERN MED VANDERMAATEN MJ, 1985, V46, P1996, AM J VET RES VERCELLOTTI GM, 1984, V103, P34, J LAB CLIN MED WALSH EE, 1987, V153, P1198, J INFECT DIS WANGER AR, 1987, V55, P1170, INFECT IMMUN WATHEN MW, 1989, V70, P2625, J GEN VIROL WATHEN MW, 1989, V159, P25, J INFECT DIS WATHEN MW, 1991, V163, P477, J INFECT DIS WATSON DL, 1984, V67, P2608, J DAIRY SCI WATSON DL, 1979, V23, P543, MICROBIOL IMMUNOL WATSON DL, 1990, P73, P INT BOVINE MASTITI WATSON DL, 1982, V32, P311, RES VET SCI WATSON DL, 1988, V45, P16, RES VET SCI WATSON DL, 1989, V47, P152, RES VET SCI WATSON DL, 1985, P433, STAPHYLOCOCCI

WATTS JL, 1988, V16, P41, VET MICROBIOL WHETSTONE CA, 1986, V47, P1789, AM J VET RES WHETSTONE CA, 1992, V122, P107, ARCH VIROL WHITBECK JC, 1988, V62, P3319, J VIROL YANCEY RJ, 1985, V15, P219, J ANTIMICROB CHEMOTH YILMA T, 1988, V242, P1058, SCIENCE

<u>,</u> #	Patent	Source	Flag	Issuate	Pages		Retrieval Current Cross
						Original	Classif Reference
						Classif	
1	5,855,880	U	S	01/05/1999	35	424/93.2	424/93.48
2	5,855,879		U	01/05/1999	37	424/93.2	424/93.48
A	5,849,305		U	12/15/1998	18	424/255.1	424/93.2
- (1)	5,840,556		U	11/24/1998	10	536/23.1	
(O)	5,824,525		U	10/20/1998	22	435/252.1	•••
6	5,783,196		U	07/21/1998	33	424/234.1	424/235.1
(7)	5,733,780		U	03/31/1998	22	435/320.1	
8	5,698,394		U	12/16/1997	31	435/6	435/91.2
<u> </u>	5,693,777		U	12/02/1997	21	536/23.2	435/196
Ŏ	5,683,900		U	11/04/1997	22	435/196	530/300
	5,587,305		U	12/24/1996	22	435/477	424/93.2
12	5,547,576		U	08/20/1996	14 2	210/500.37	210/435
13	5,468,485		U	11/21/1995	31	424/184.1	424/93.1
14	5,424,065		U.	06/13/1995	18	424/93.2	424/93.48
15	5,389,368		U	02/14/1995	29	424/200.1	424/93.4
16	5,364,774		U	11/15/1994	22	435/320.1	435/235.1
17	5,294,441		U	03/15/1994	38	424/200.1	424/235.1
18	5,010,000		Ū	04/23/1991	14	435/69.1	435/69.51
19	4,675,189		Ū	06/23/1987	11	424/490	424/426
17	.,,,.	_	-				

•

(FILE 'USPAT' ENTERED AT 14:19:00 ON 08 FEB 1999) 2309 S HEMOLYTIC? L1 922 S ARO L2138 S AROA L3 0 S L1 (P) (L2 OR L3) L412 S L1 AND (L2 OR L3) L5 661 S HAEMOLYT? L6 7 S L6 (P) (L2 OR L3) L7 19 S L5 OR L7 L8